

Fig.1

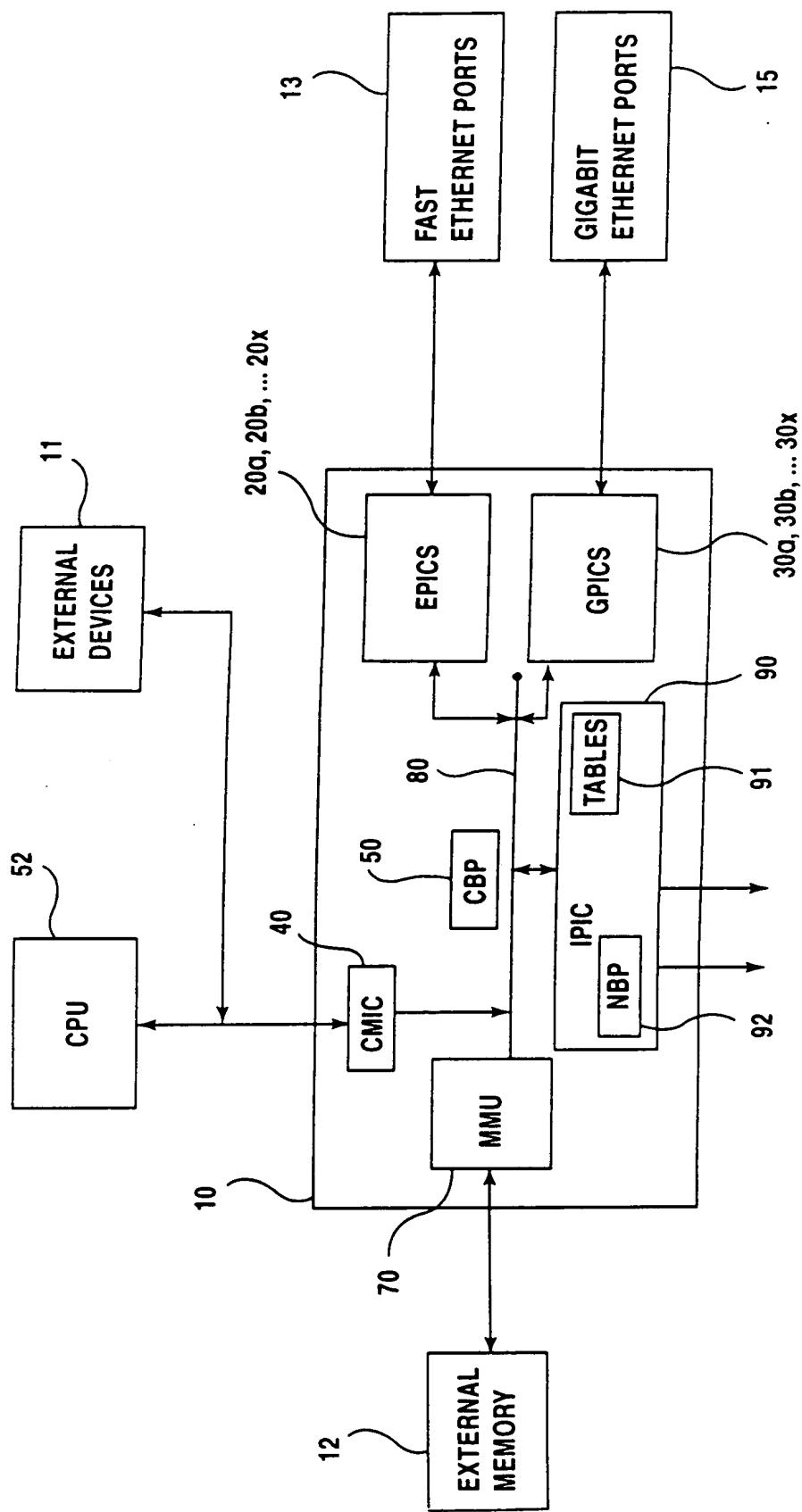


Fig.2

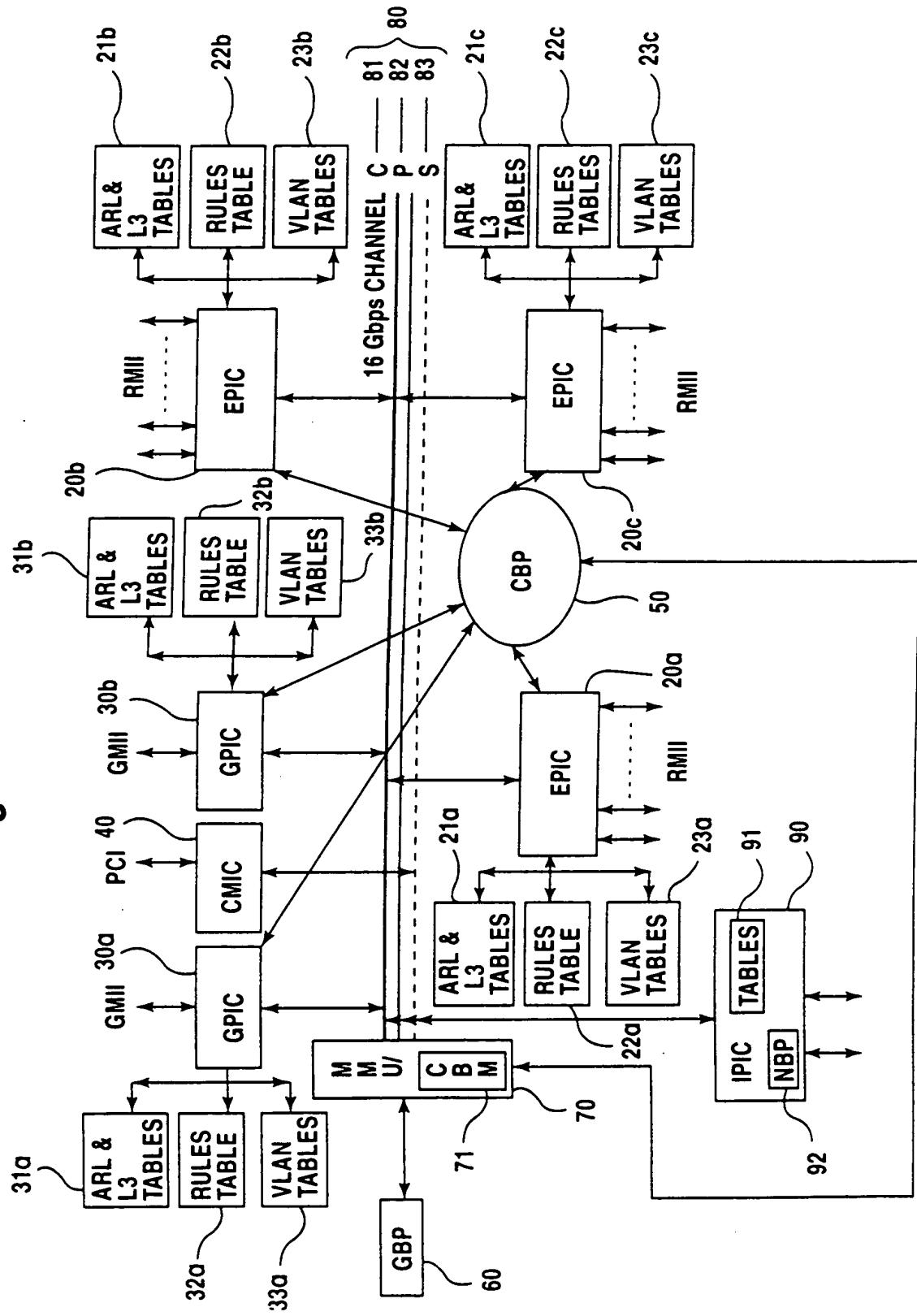
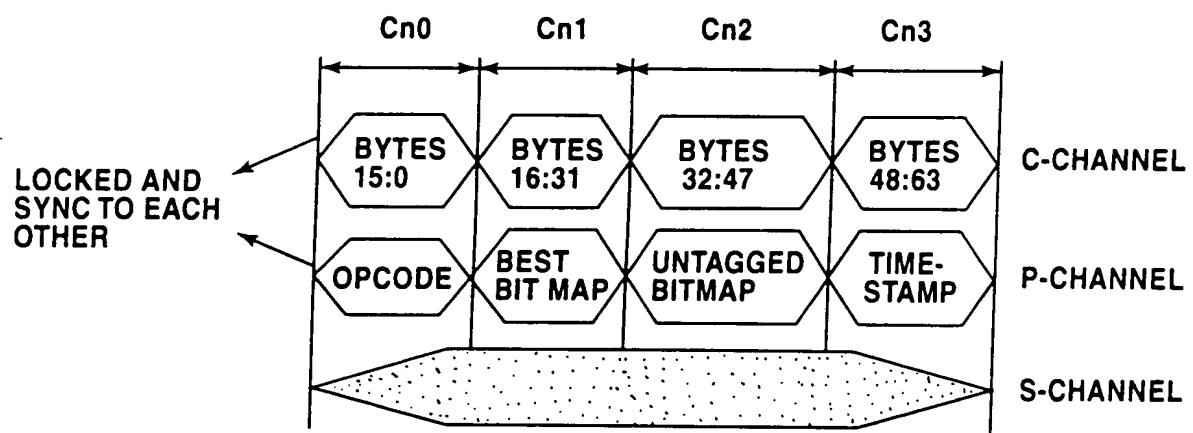


Fig.3



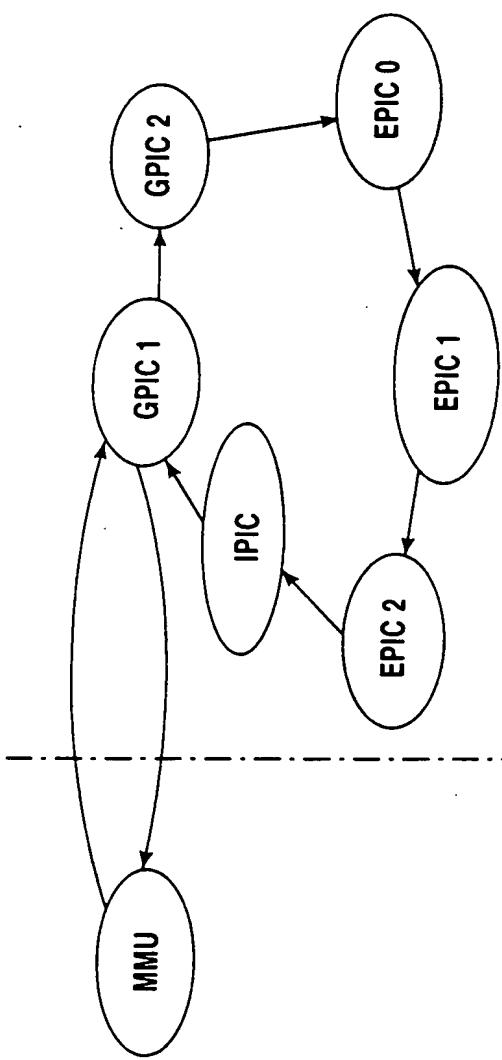


Fig.4a

SECTION A

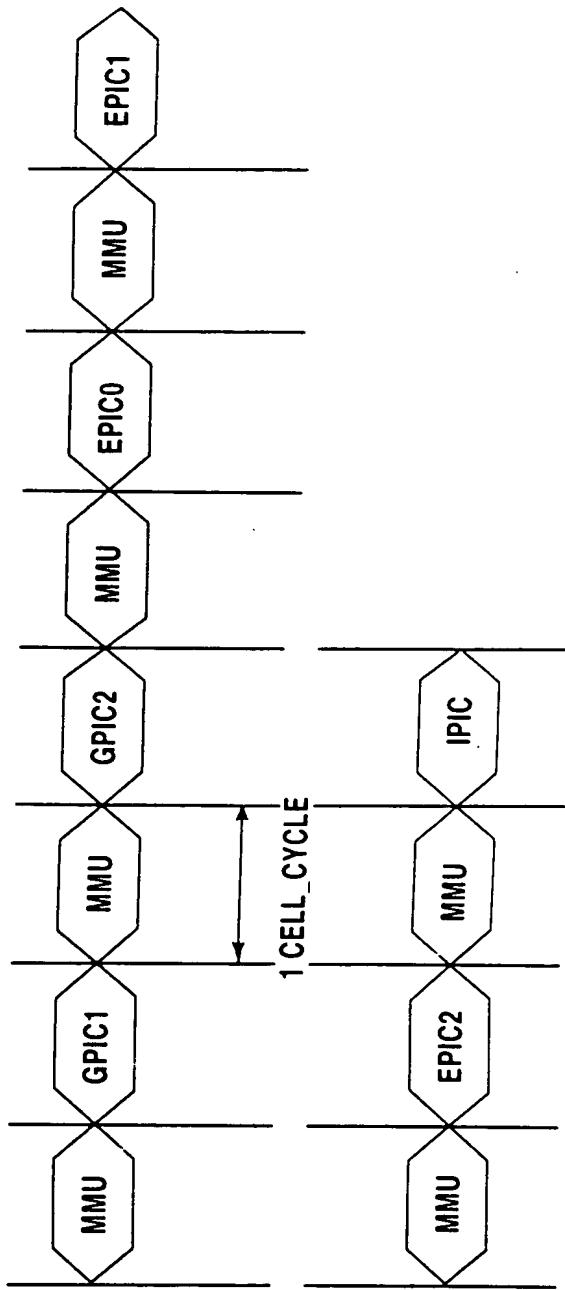


Fig.4b

SECTION B

Fig.5

PROTOCOL CHANNEL MESSAGES

30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	0
OPC ODE	IP- ODE	RESE RVED	NXT CELL	SRC	DEST	PORT	COS	J	S	E	CRC	P	O	LEN	

62	60	58	56	54	52	50	48	46	44	42	40	38	36	34	32
PF M	NEW IP CHECKSUM						M	MT-MOD ID		T	TGID	MOD OPCODE		c	

30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	0
U	UNTAGGED PORTBITMAP / SRC PORT NUMBER (bit0...5)														

62	60	58	56	54	52	50	48	46	44	42	40	38	36	34	32
RSVD	MATCHED FILTER	VLAN ID				SRC PORT			REMOTE PORT						

Fig.6

Fig.7
PRIOR ART

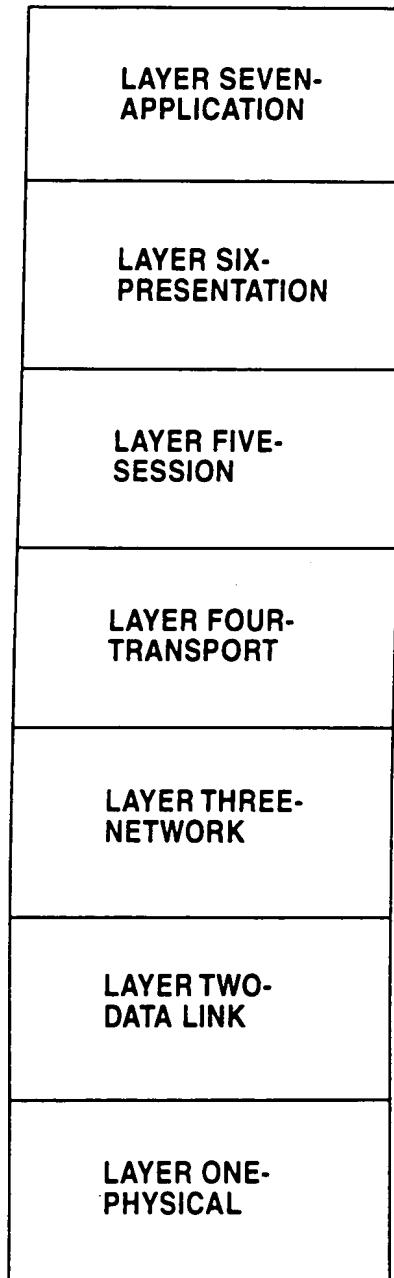


Fig.8

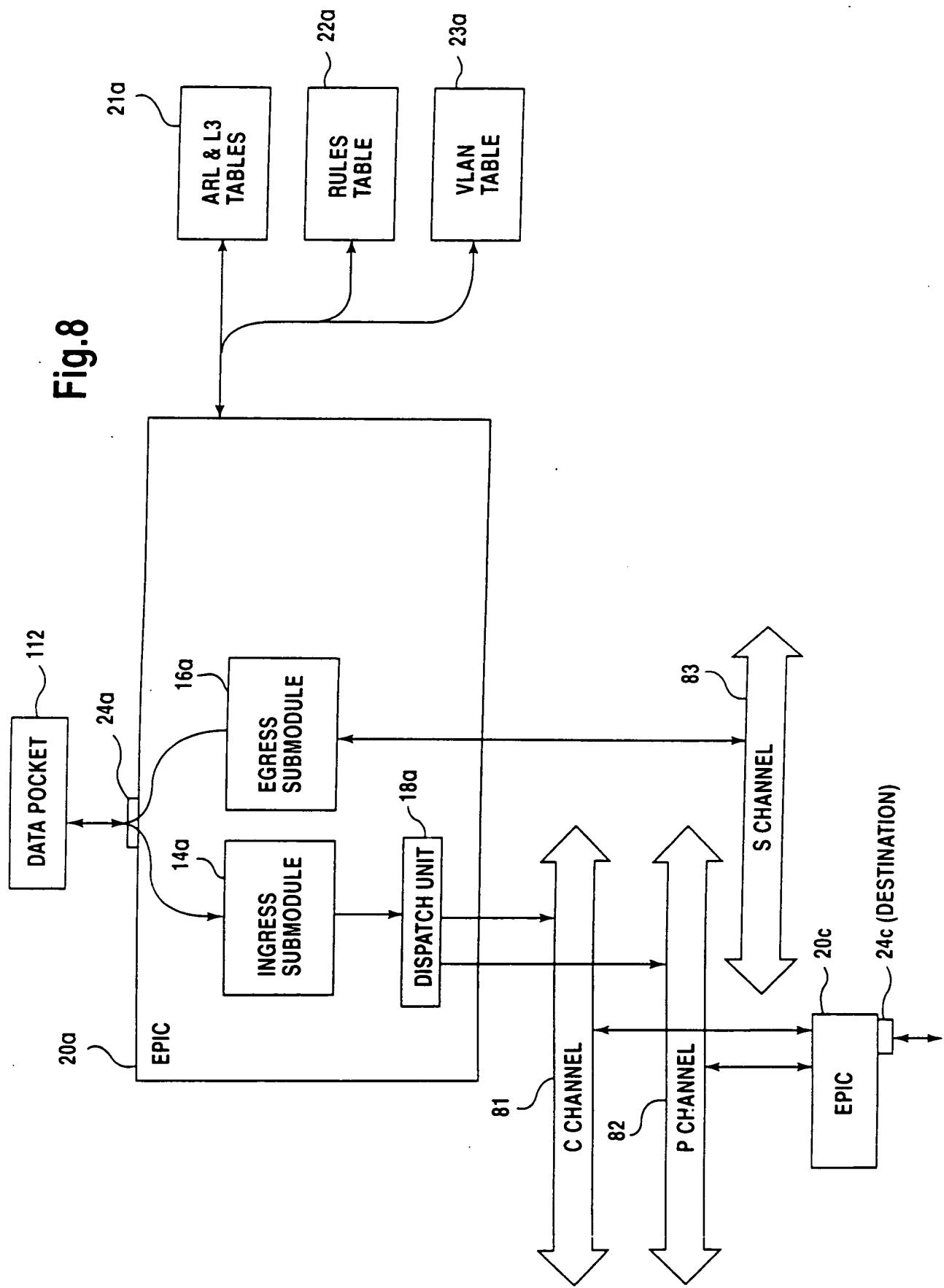


Fig.9

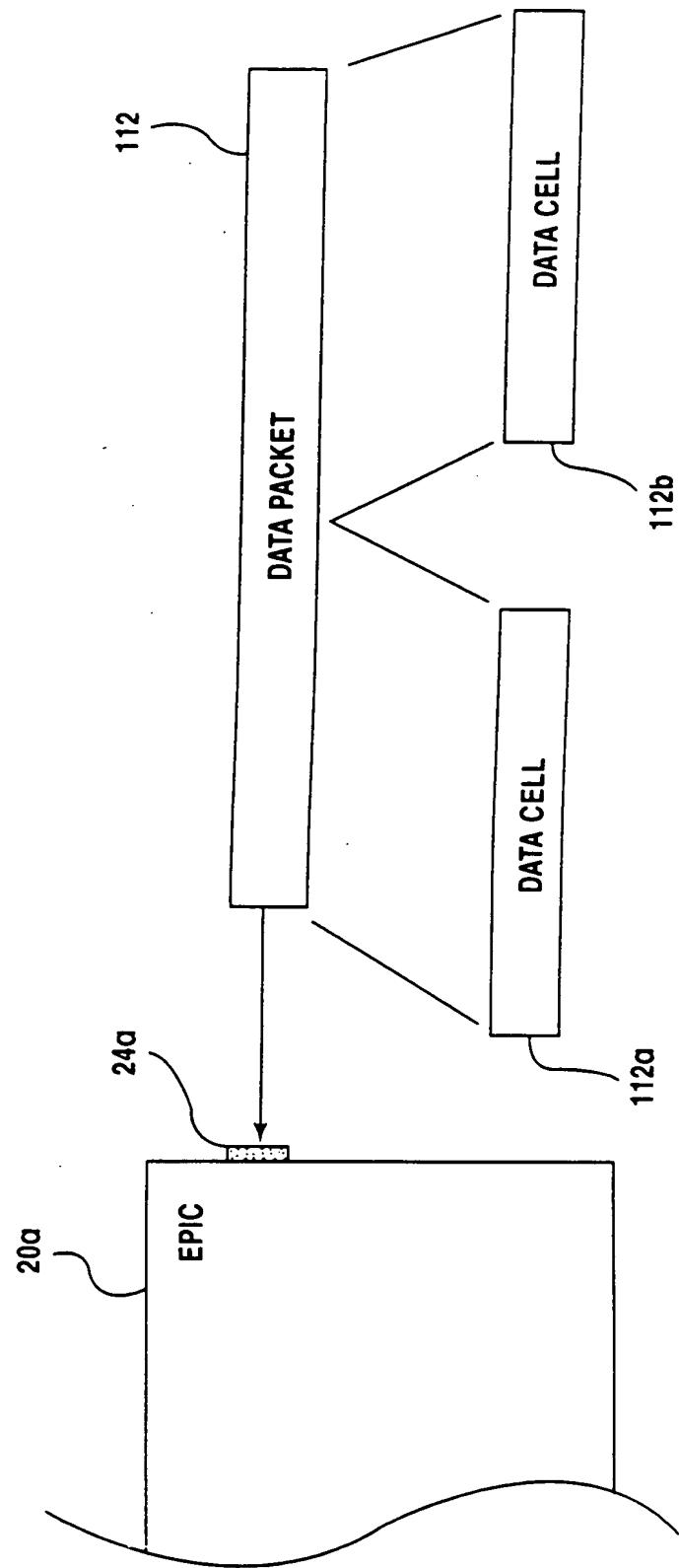


Fig.10

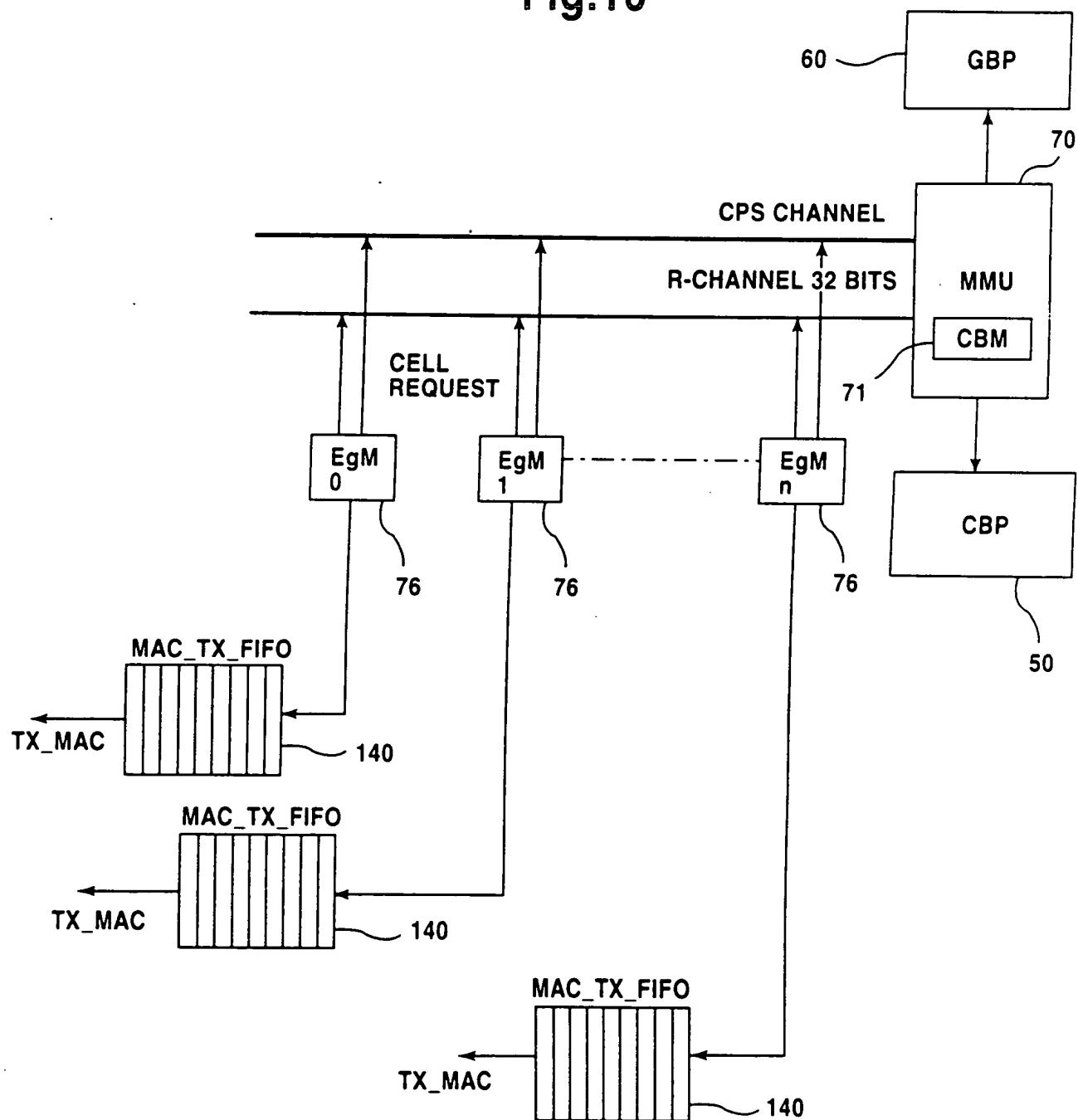


Fig.11

LINE 0 →	FC LC BCMC Cpy_cnt (5b) Cell_length (7b) CRC (2b) NC_header (16b) Src_Count (6) IPX IP Time_Stamp (14b) O_bits (2b) P NextCellLen (2b) CpuOpcode (4b) Cell_data (0-9B)
LINE 1 →	Cell_data (10-27) Bytes
LINE 2 →	Cell_data (28-45) Bytes
LINE 3 →	Cell_data (45-63) Bytes

Fig.12

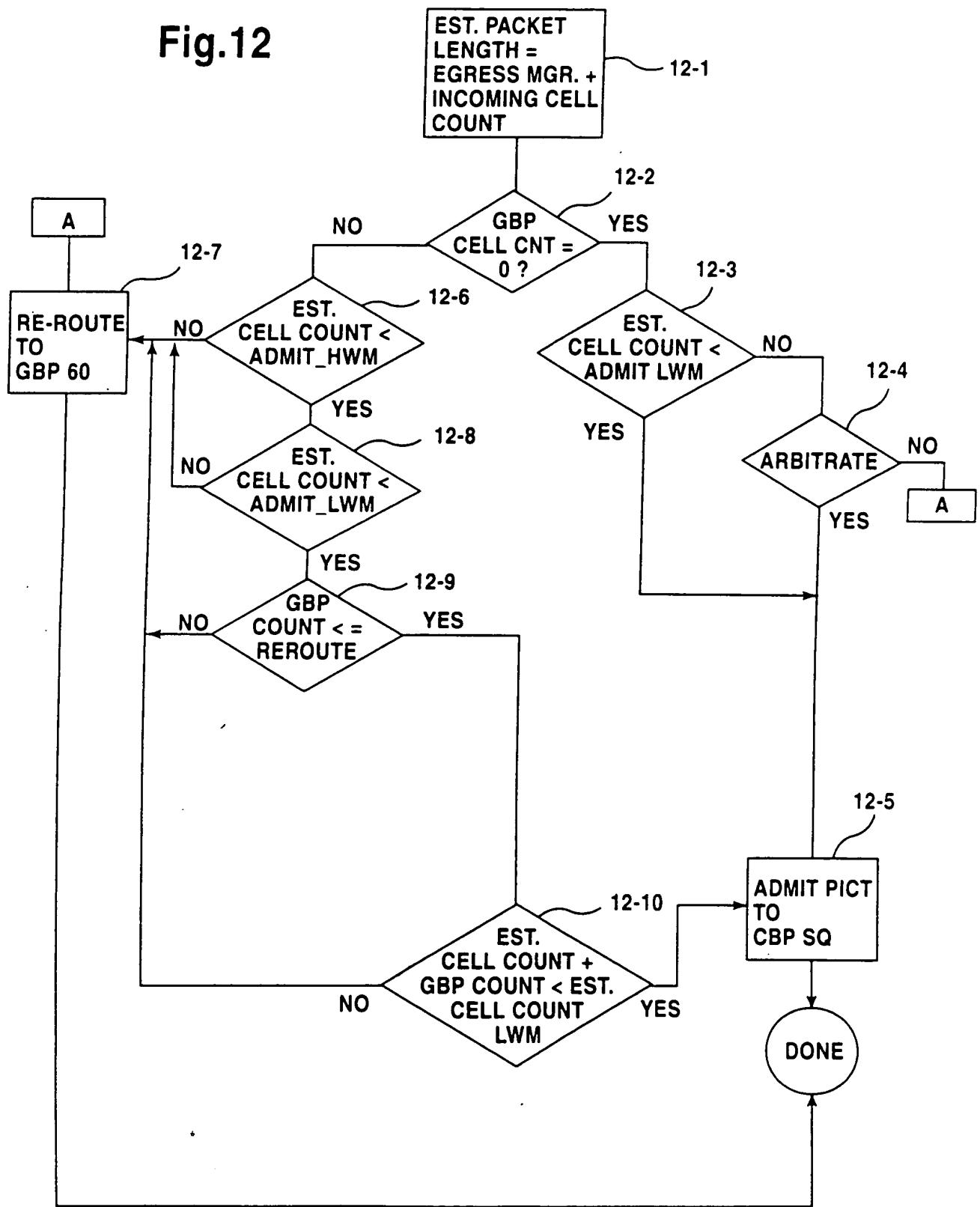


Fig.13

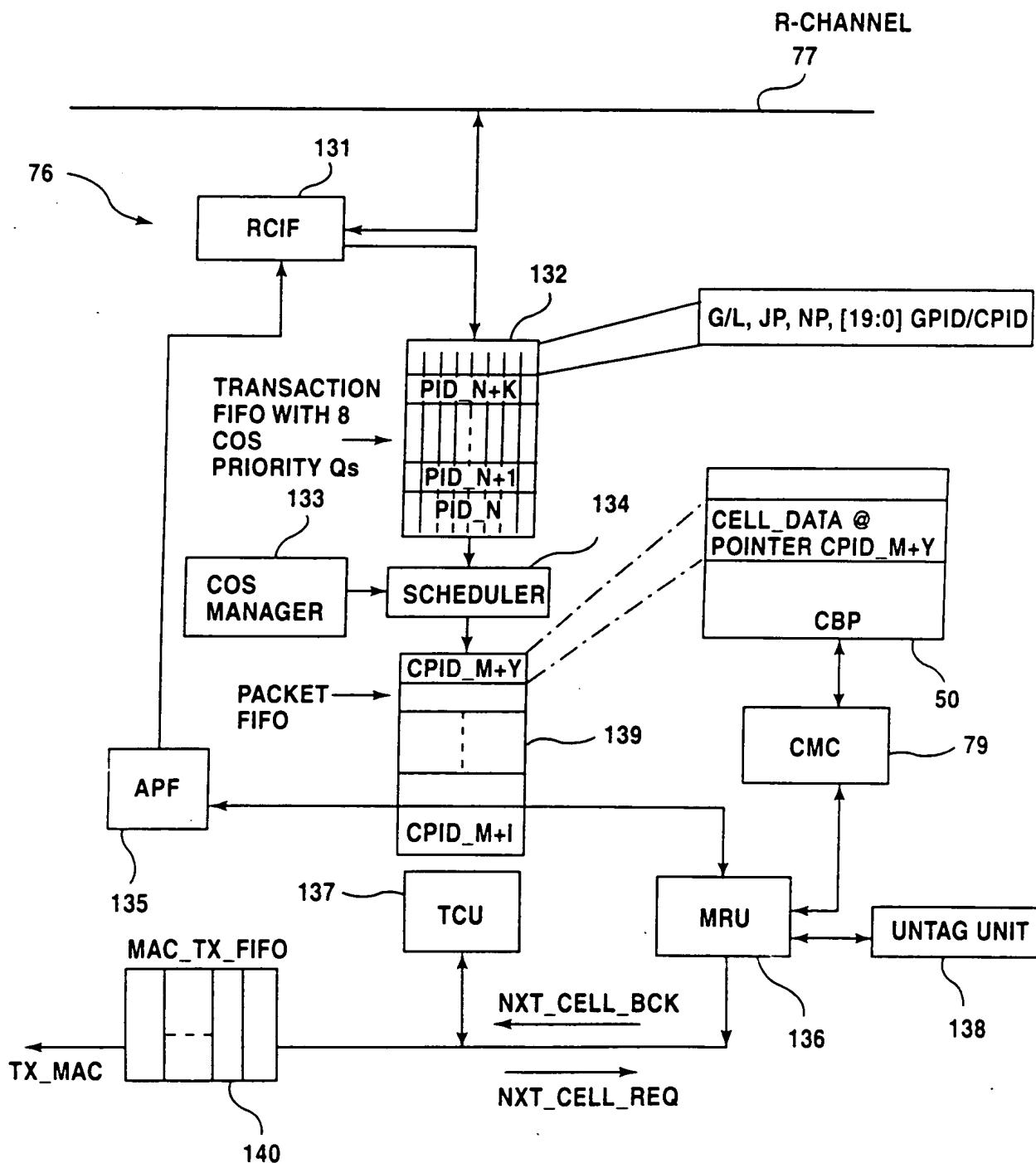


Fig.14

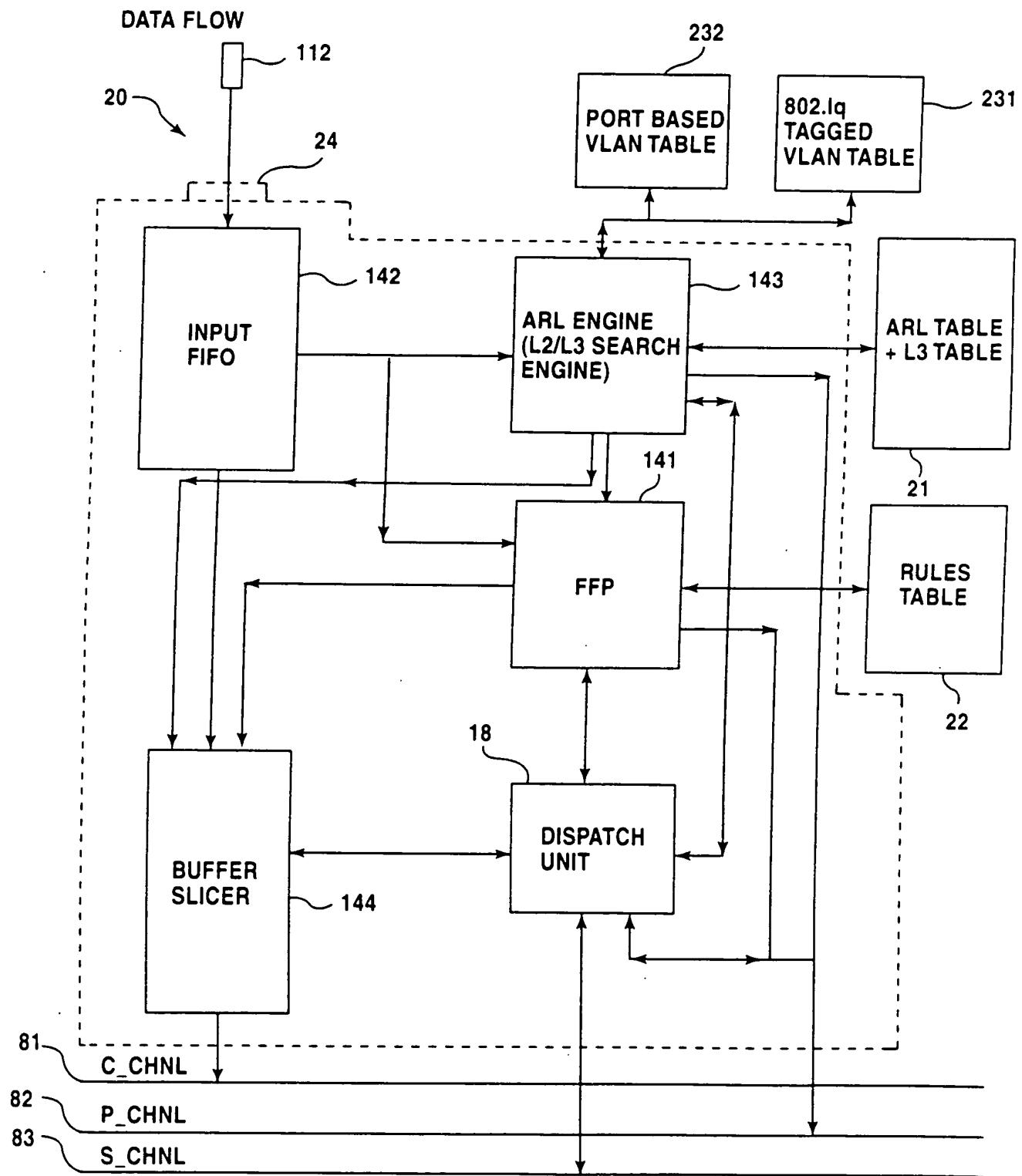


Fig.15

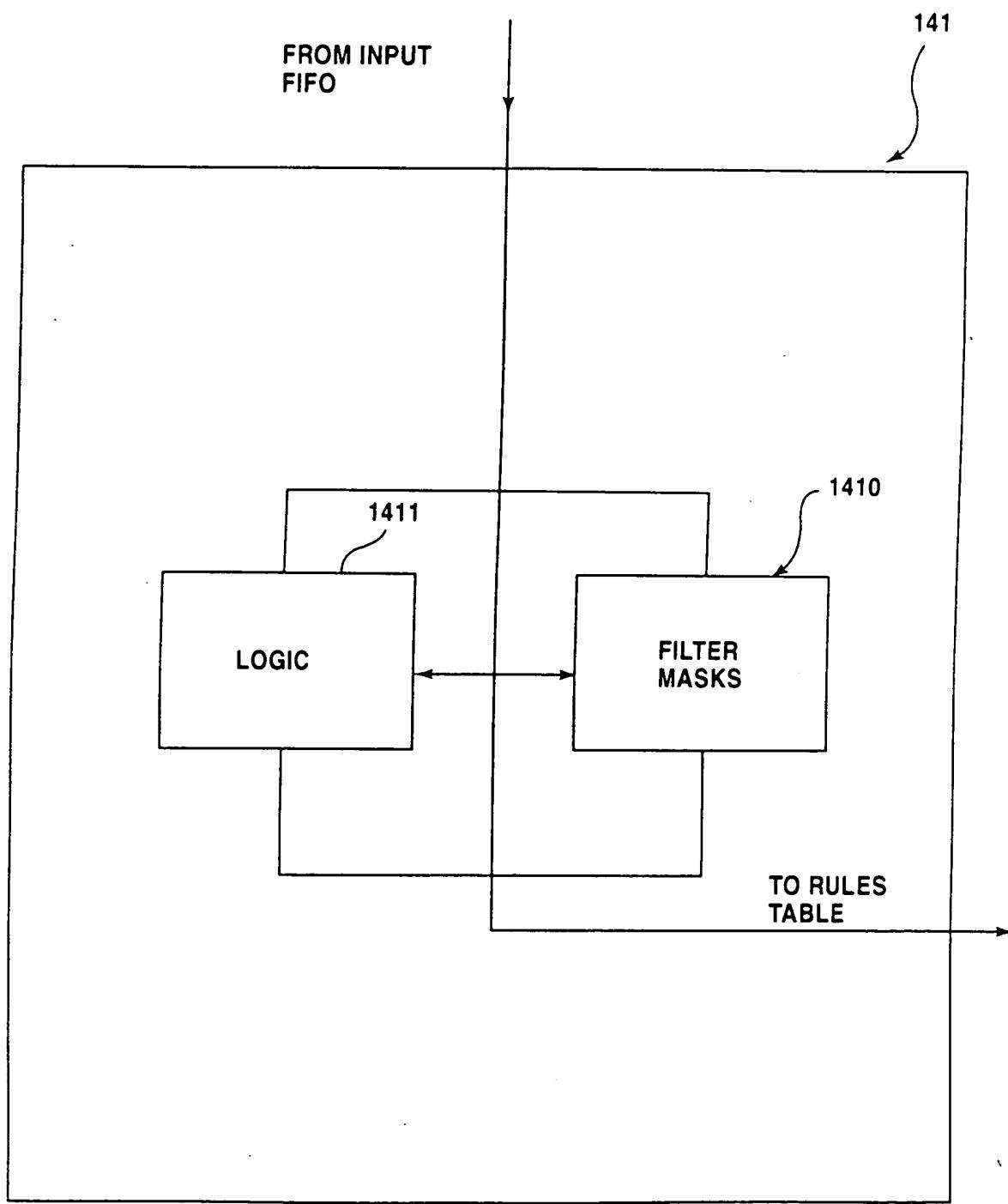


Fig.16

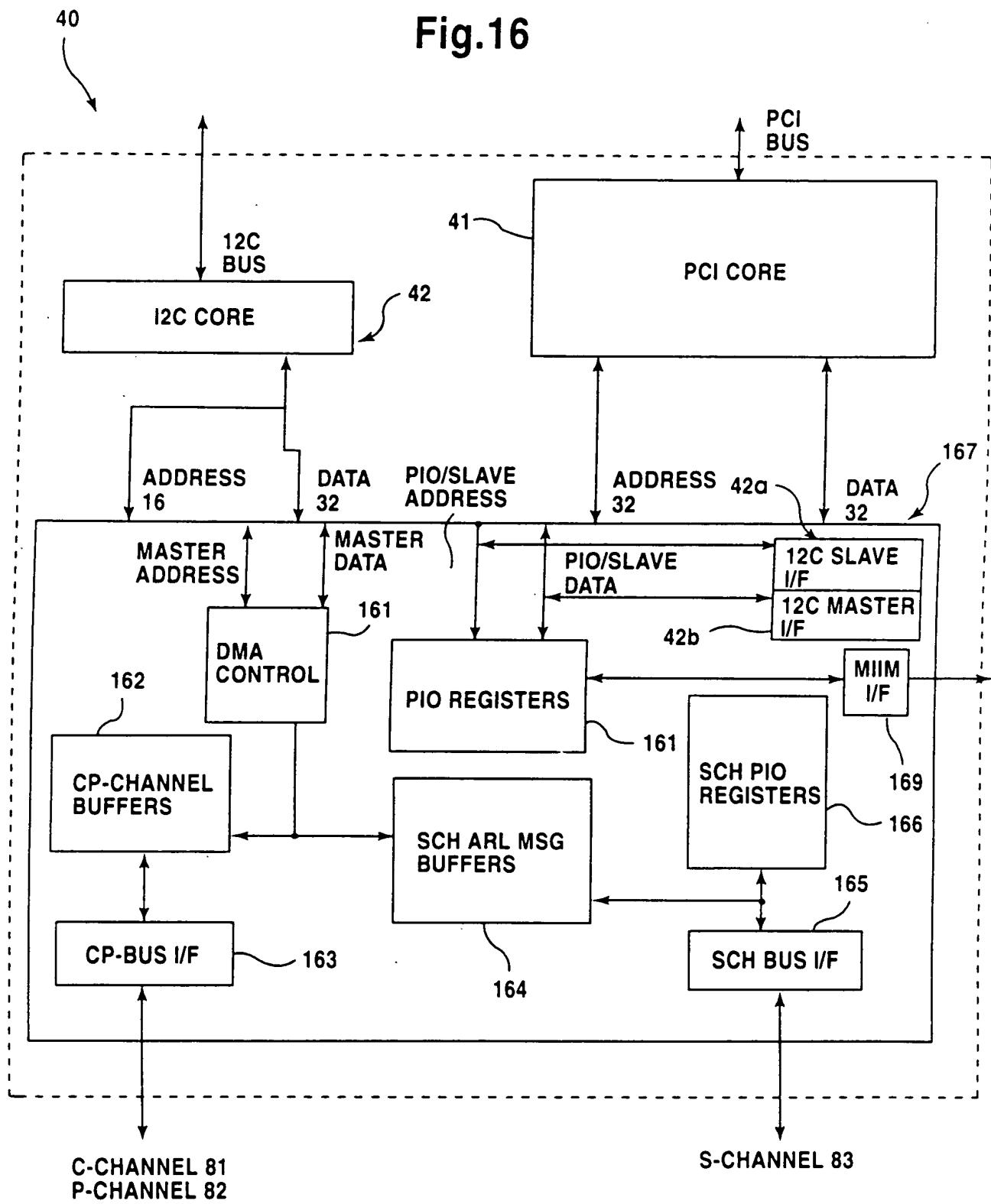


Fig.17

FFP PROGRAMMING FLOW CHART

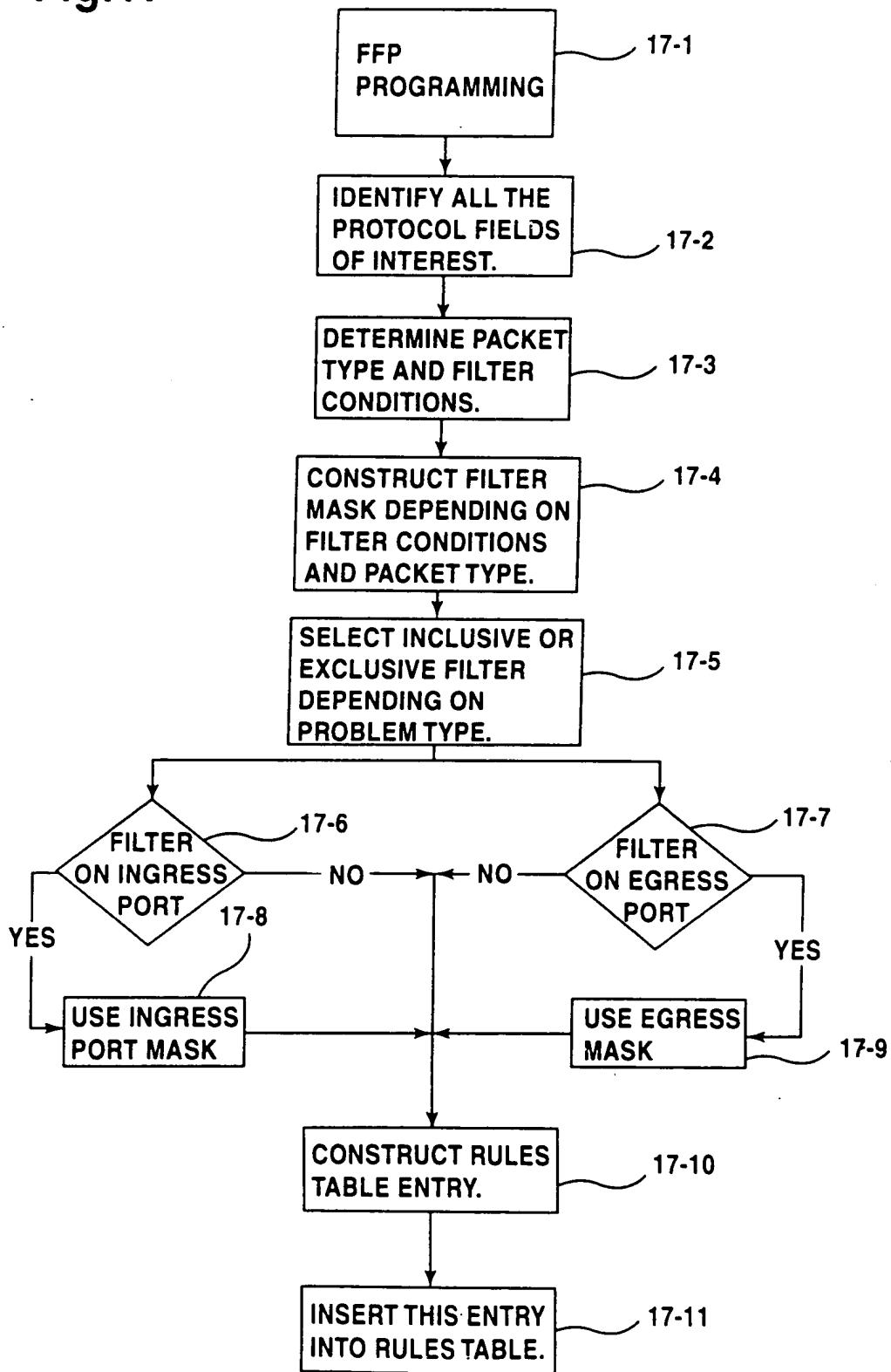


Fig.18

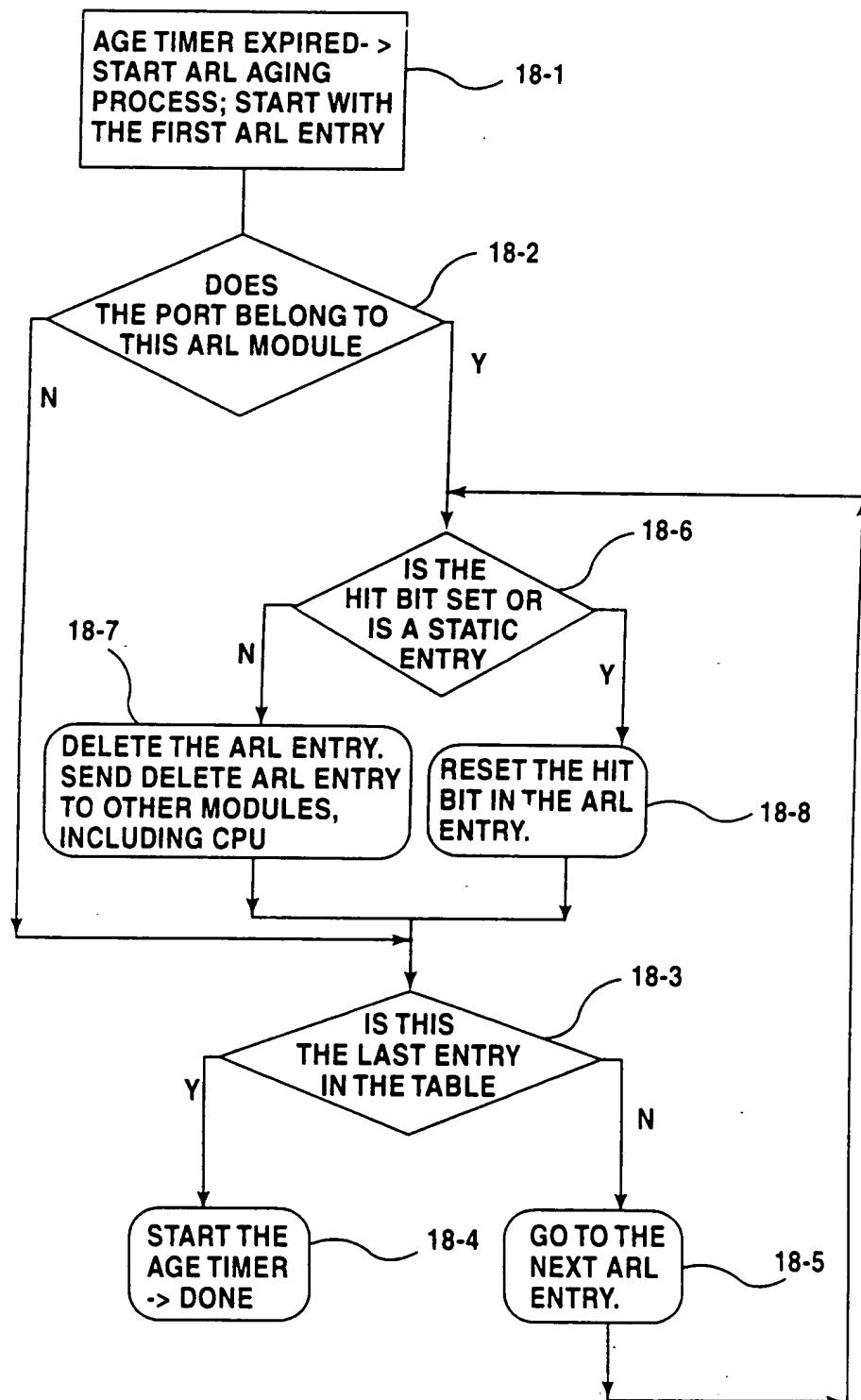
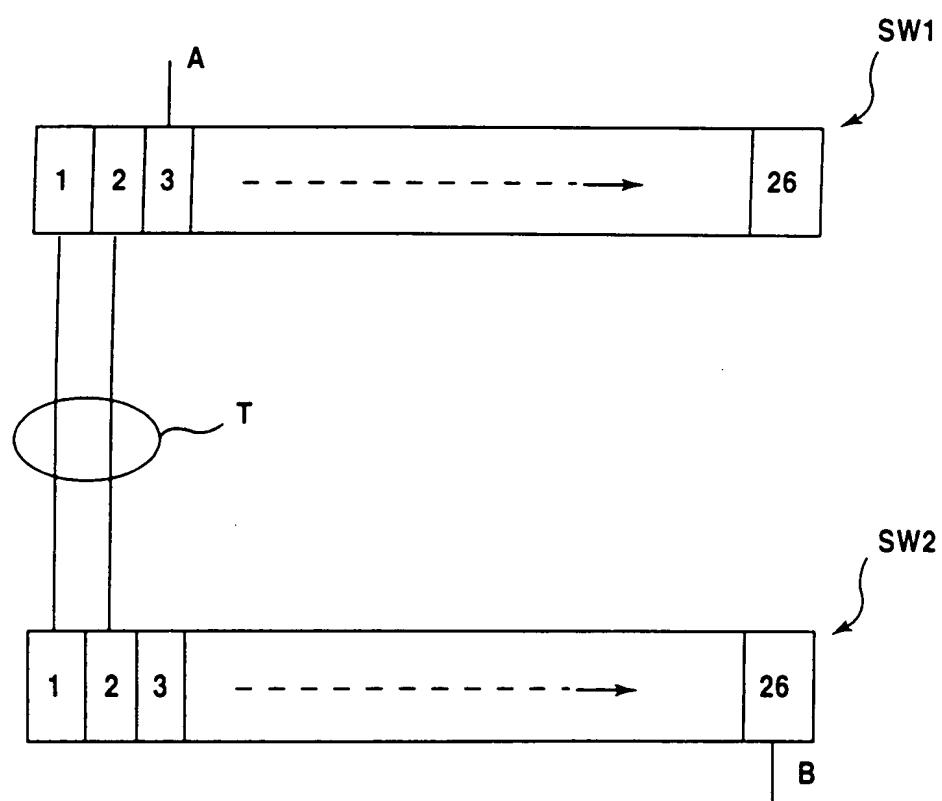


Fig.19



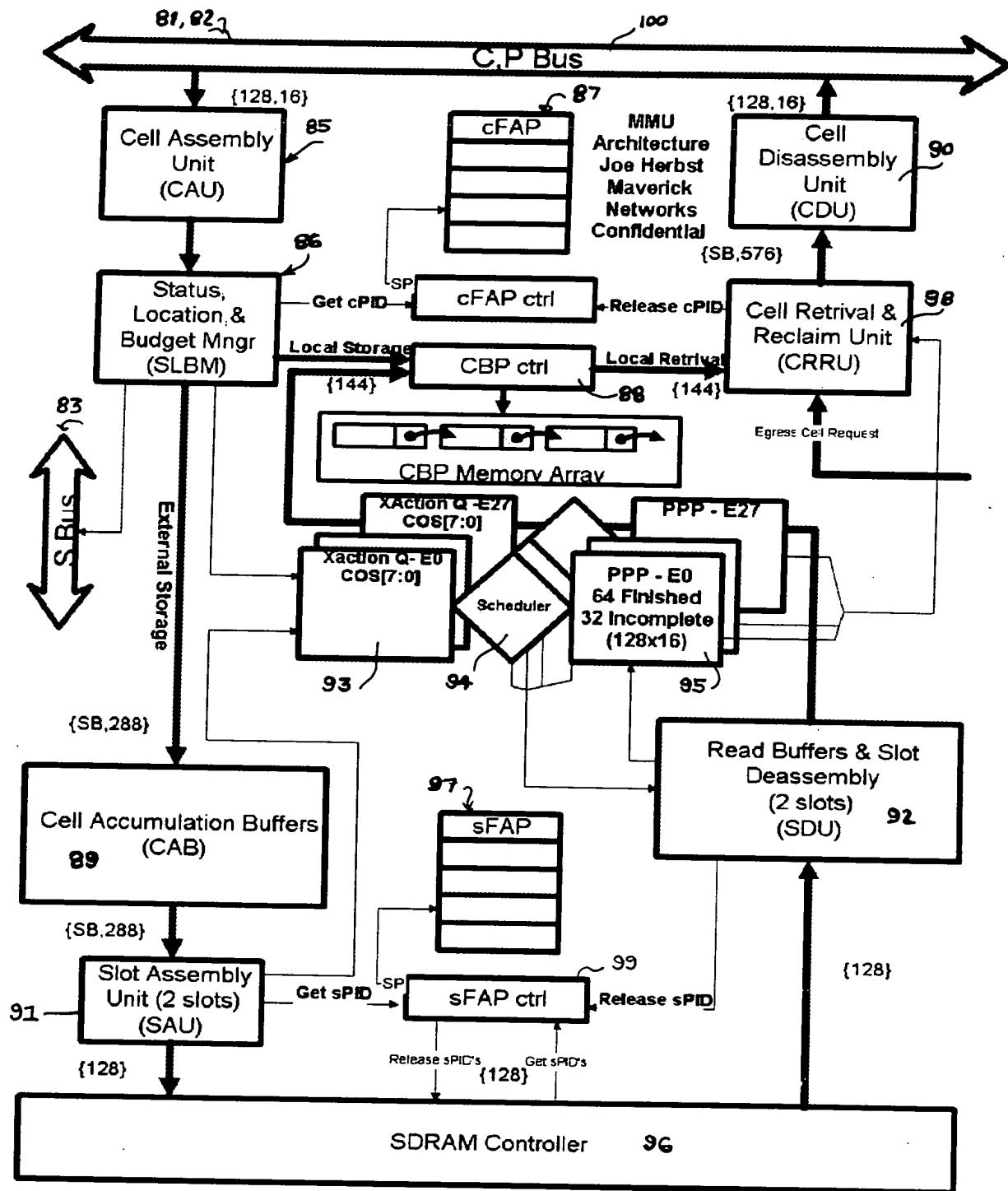


FIGURE 20

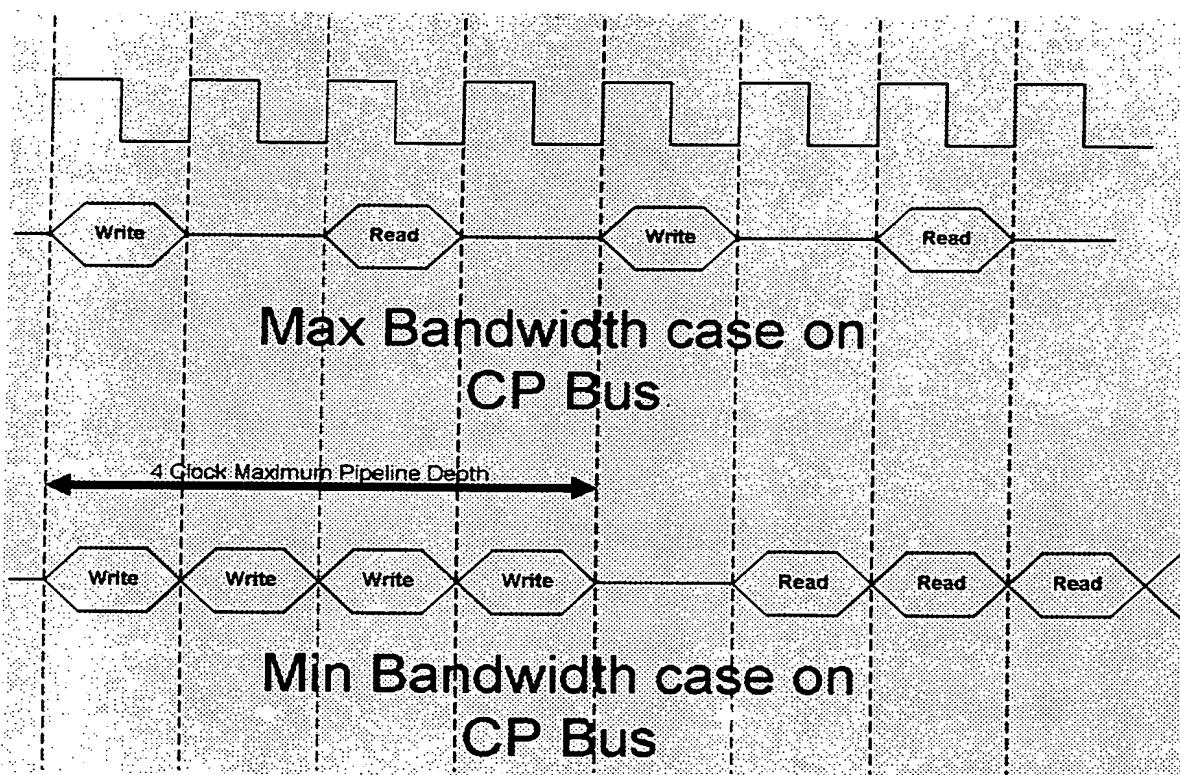


Figure 21

SFAP To SDRAM Scheduler Interface Timings

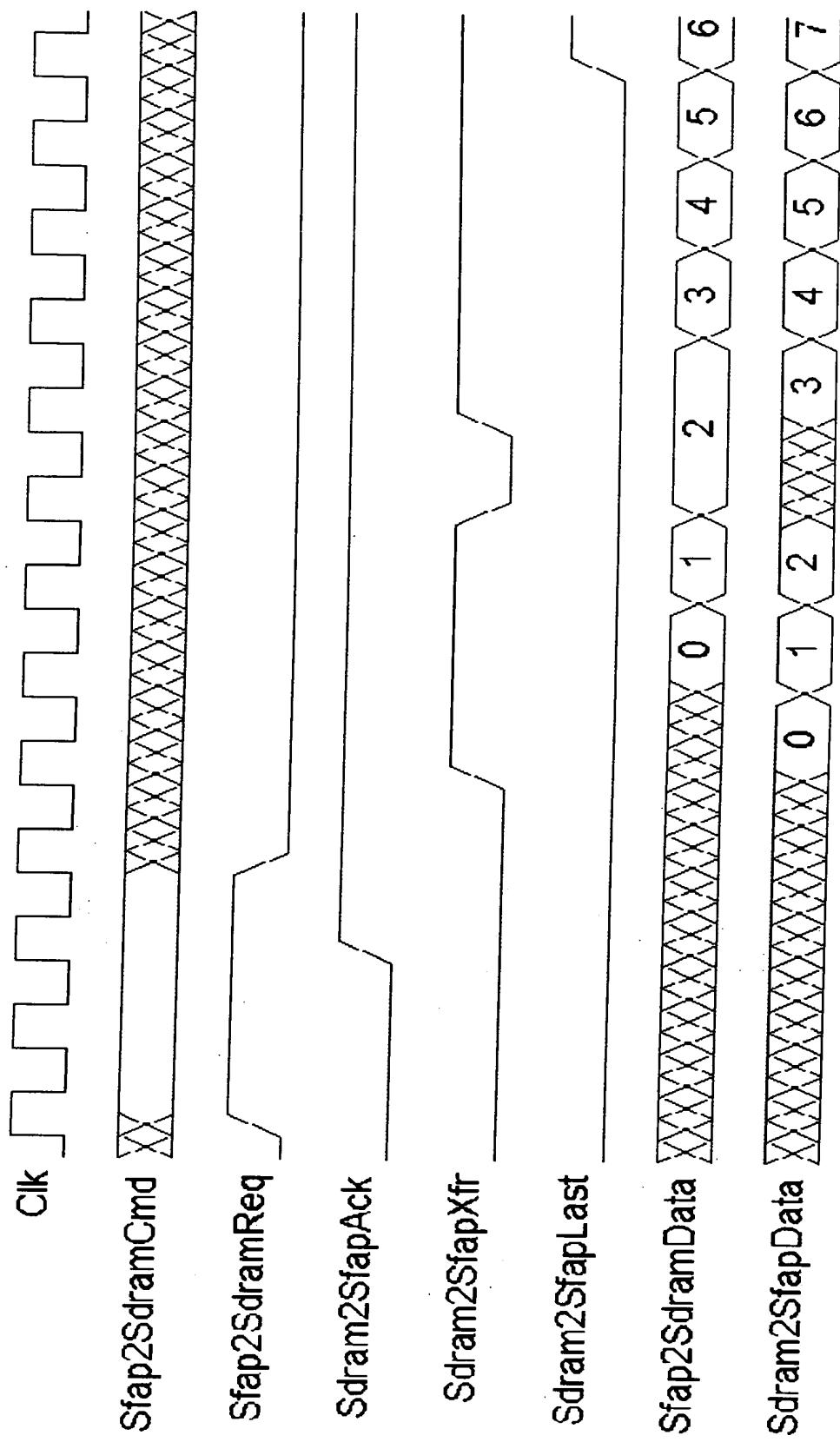
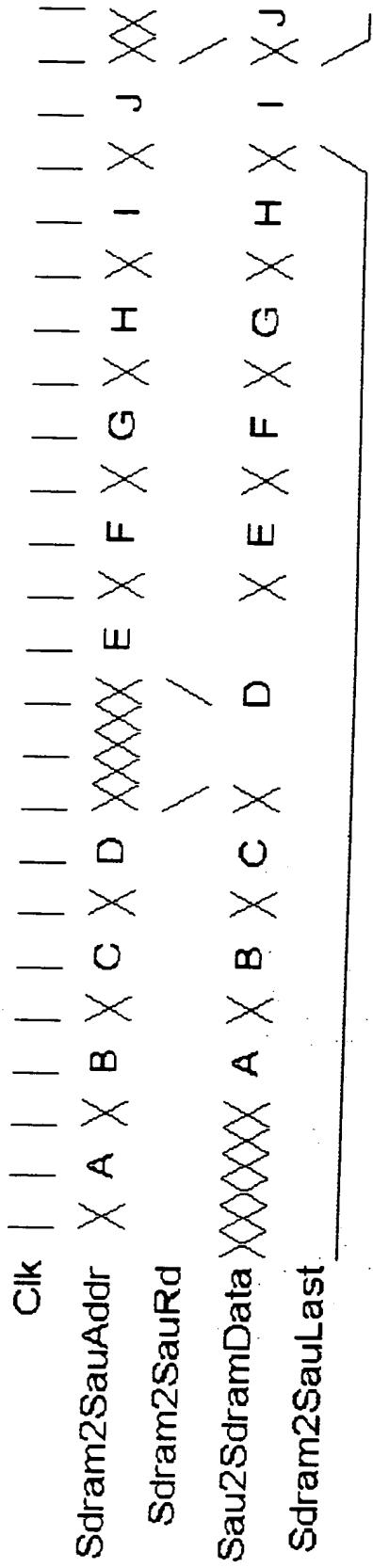


FIGURE 22

FIGURE 23
SAU to SDRAM Scheduler Data Transfer



SDRAM Scheduler to SDU Data Transfer

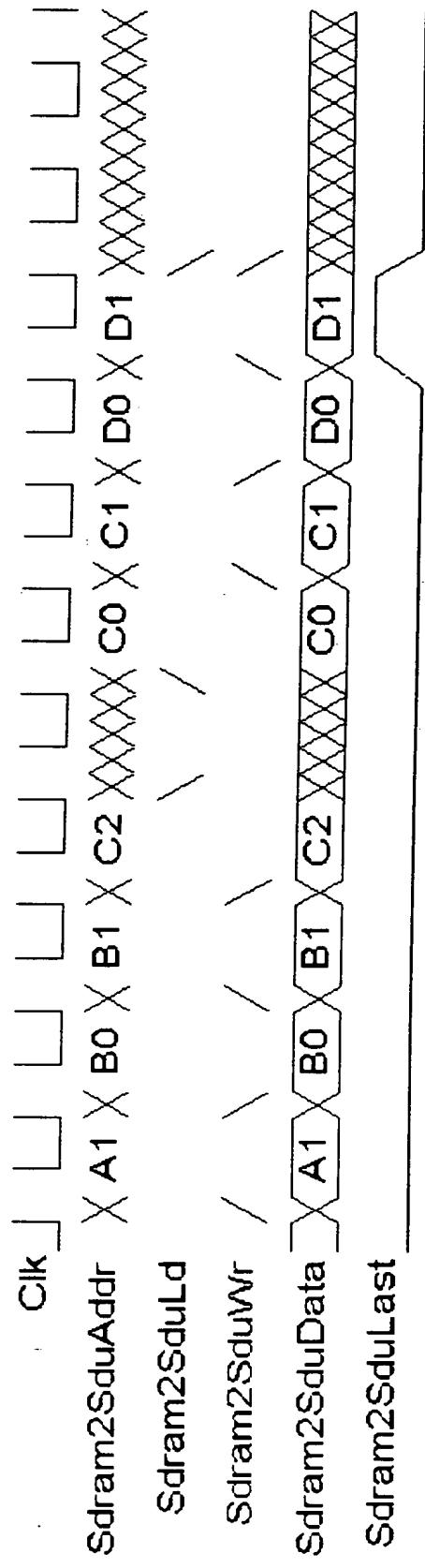
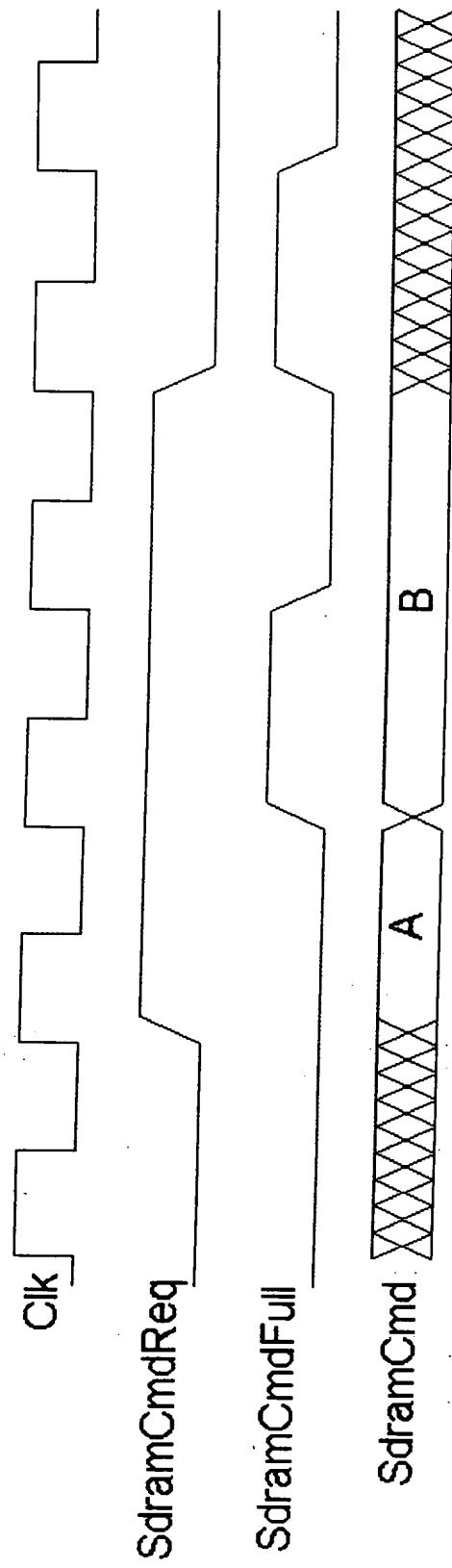


FIGURE 24

FIGURE 25

SDRAM Controller Interface Timing

SDRAM Controller Command Input FIFO



SDRAM Controller Data Write FIFO

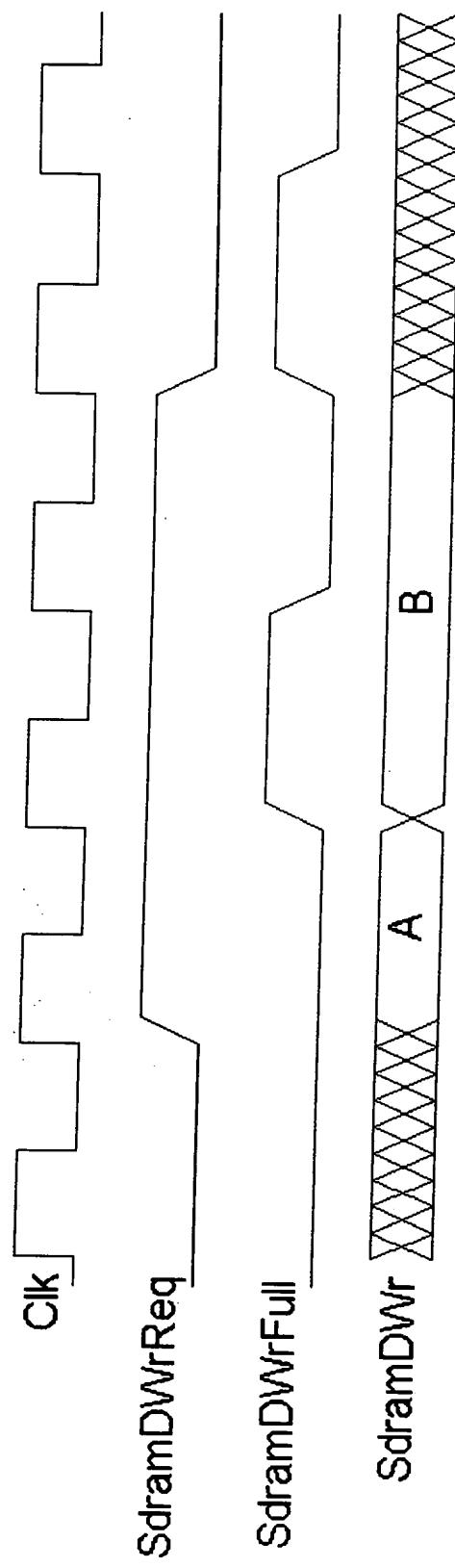
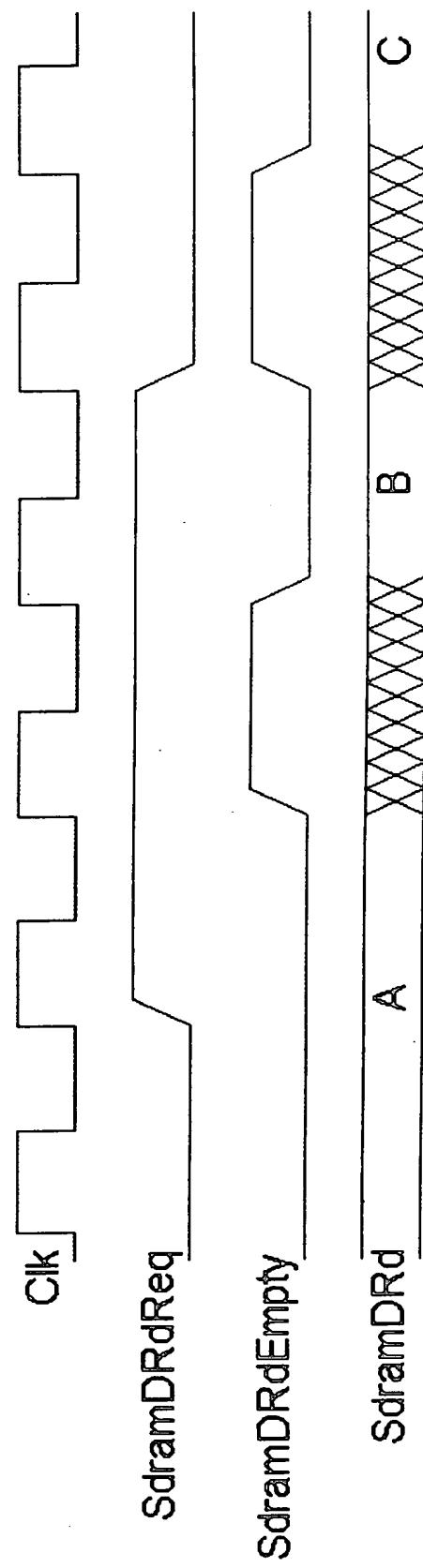


FIGURE 26

FIGURE 27

SDRAM Controller Data Read FIFO



Field	Left	Right	Bits
Src	310	306	5
CPUOpcode	305	302	4
BC/MC Bitmap	301	270	32
Cos	269	267	3
P	266	266	1
FC (S)	265	265	1
LC (E)	264	264	1
CRC	263	262	2
Len (0 = 64)	261	256	6
O	255	254	2
BC/MC	253	253	1
Copy Count (0 = 32)	252	248	5
Untagged Bitmap	247	216	32
IP	215	215	1
IPX	214	214	1
Time Stamp	213	200	14
Cell Data Bytes 24-0	199	0	200
Total			311

FIGURE 28

Cell Size	SAU Words	SDRAM Words
0 0	1	2
0 1	1	3
1 0	2	4
1 1	2	5

Figure 29

Field	Left	Right	Bits	First Only
Last Slot	313	313	1	X
Next Slot ID	312	297	16	X
Copy Count	296	292	5	X
CPUOpcode	291	288	4	
Cell Size	287	286	2	
P	285	285	1	
FC	284	284	1	
LC	283	283	1	
CRC	282	281	2	
Len	280	275	6	
O	274	273	2	
BC/MC	272	272	1	
IP	271	271	1	
IPX	270	270	1	
Time Stamp	269	256	14	

Figure 30

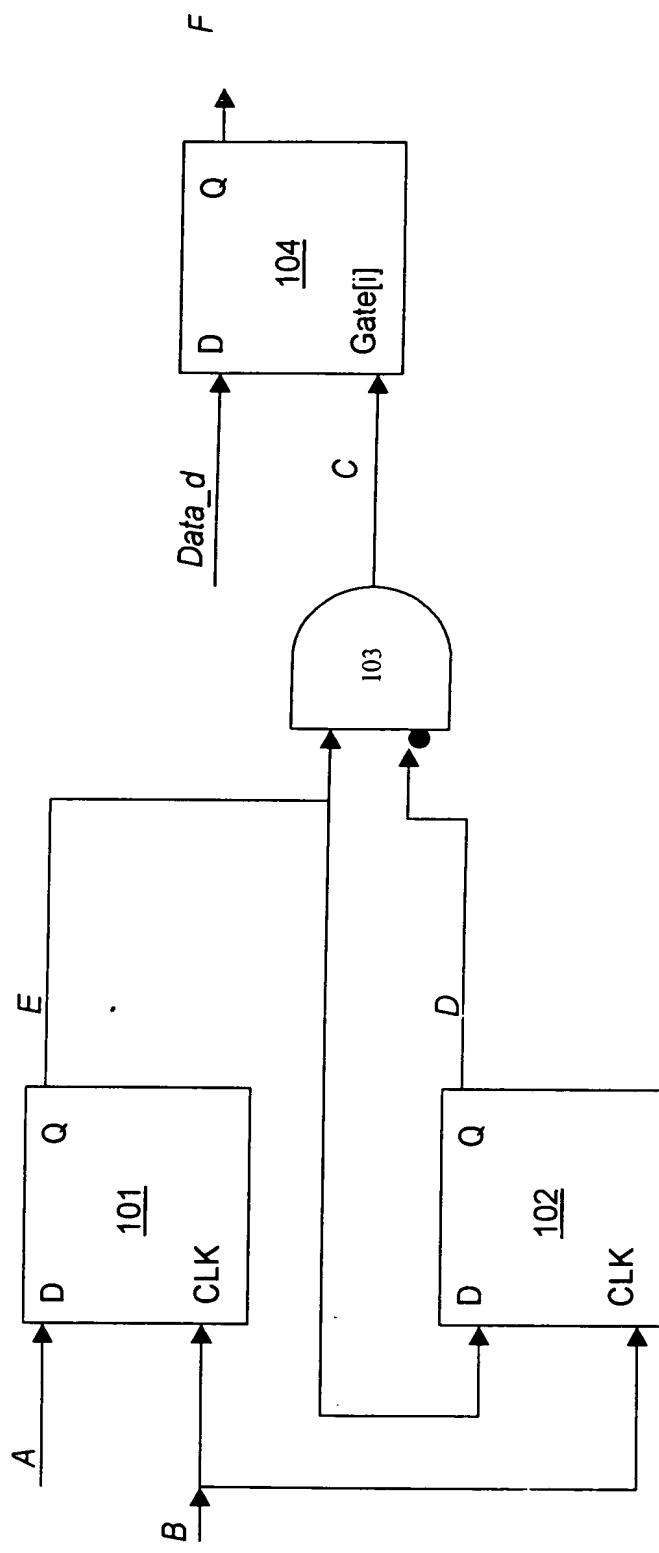
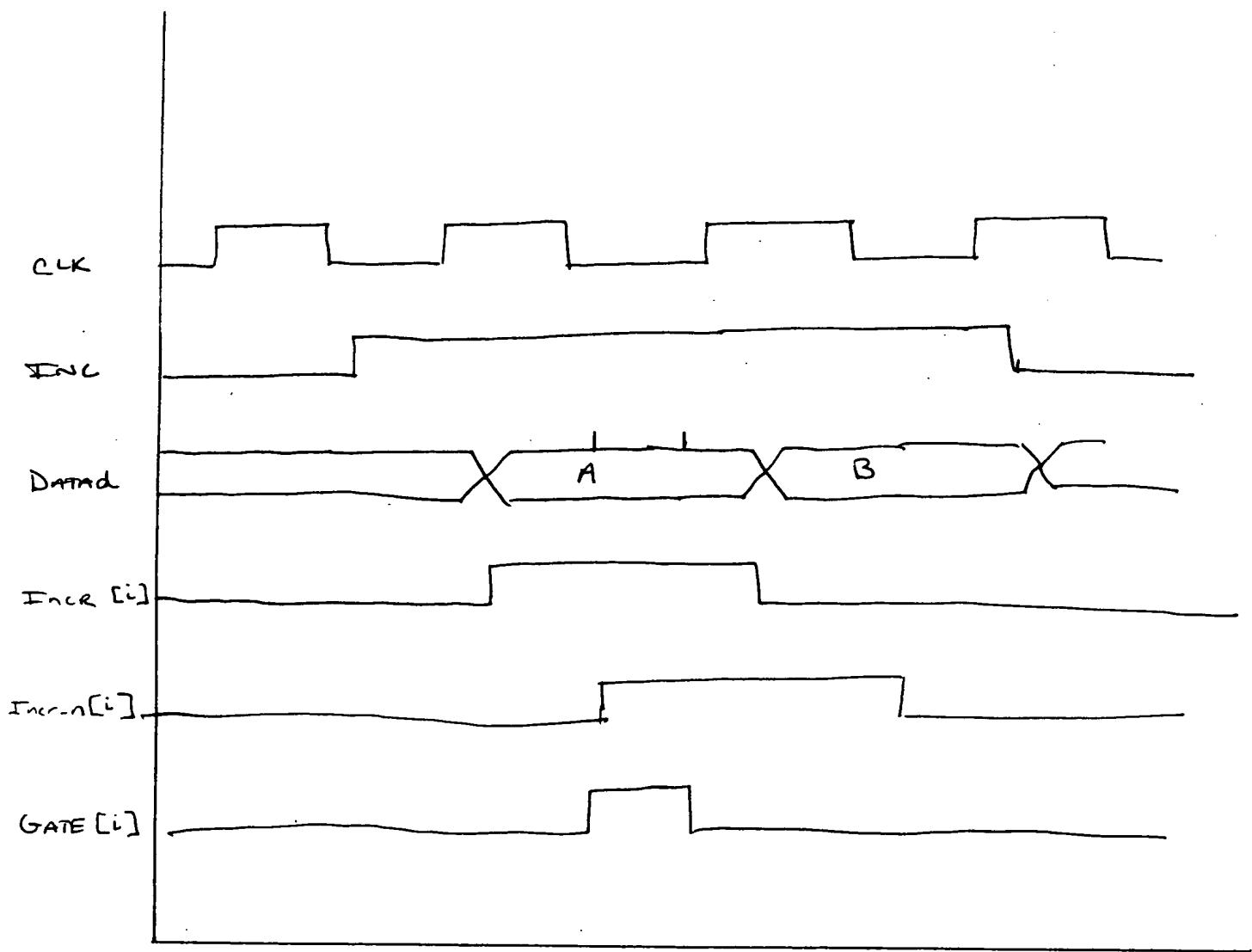


Figure 31

Figure 32



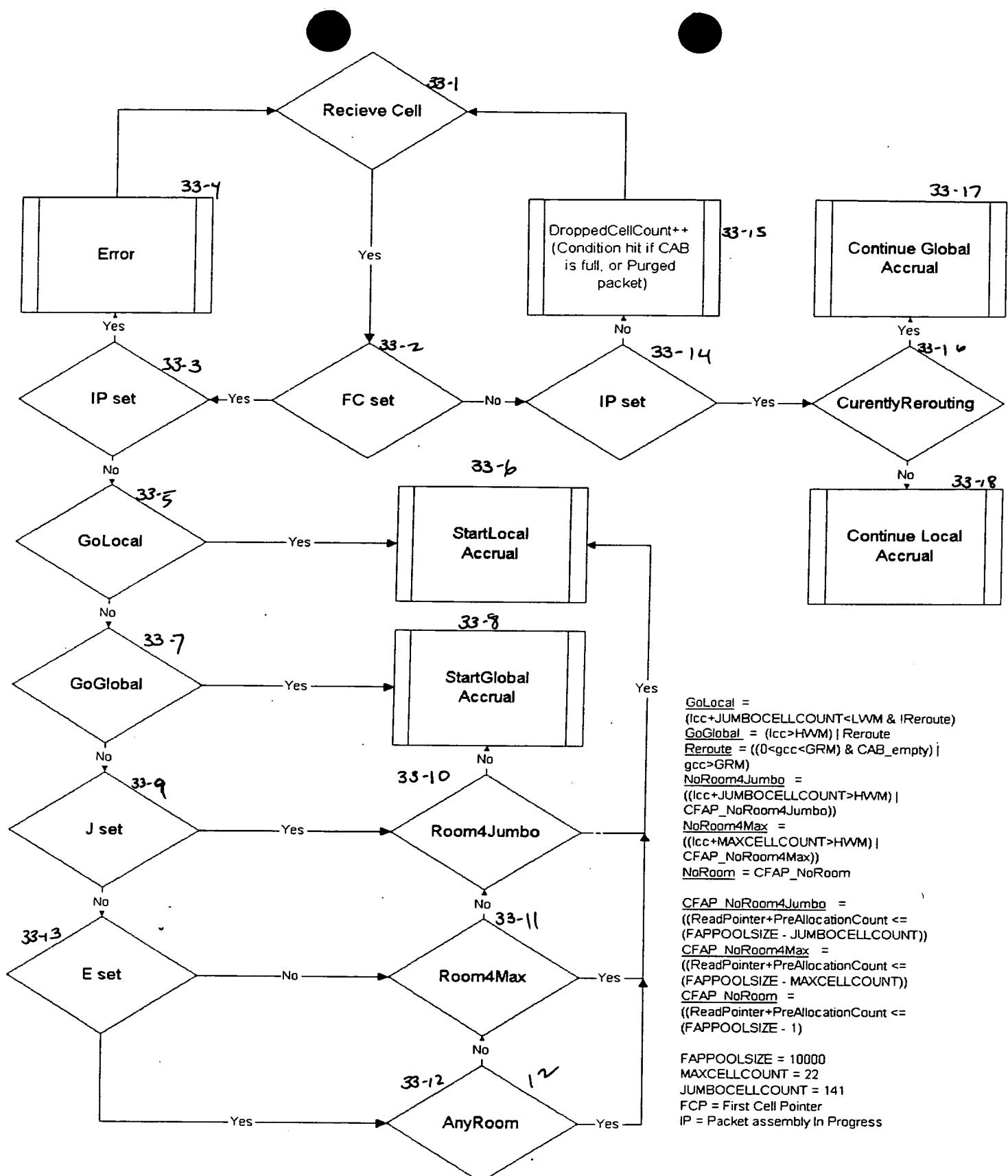


FIGURE 33

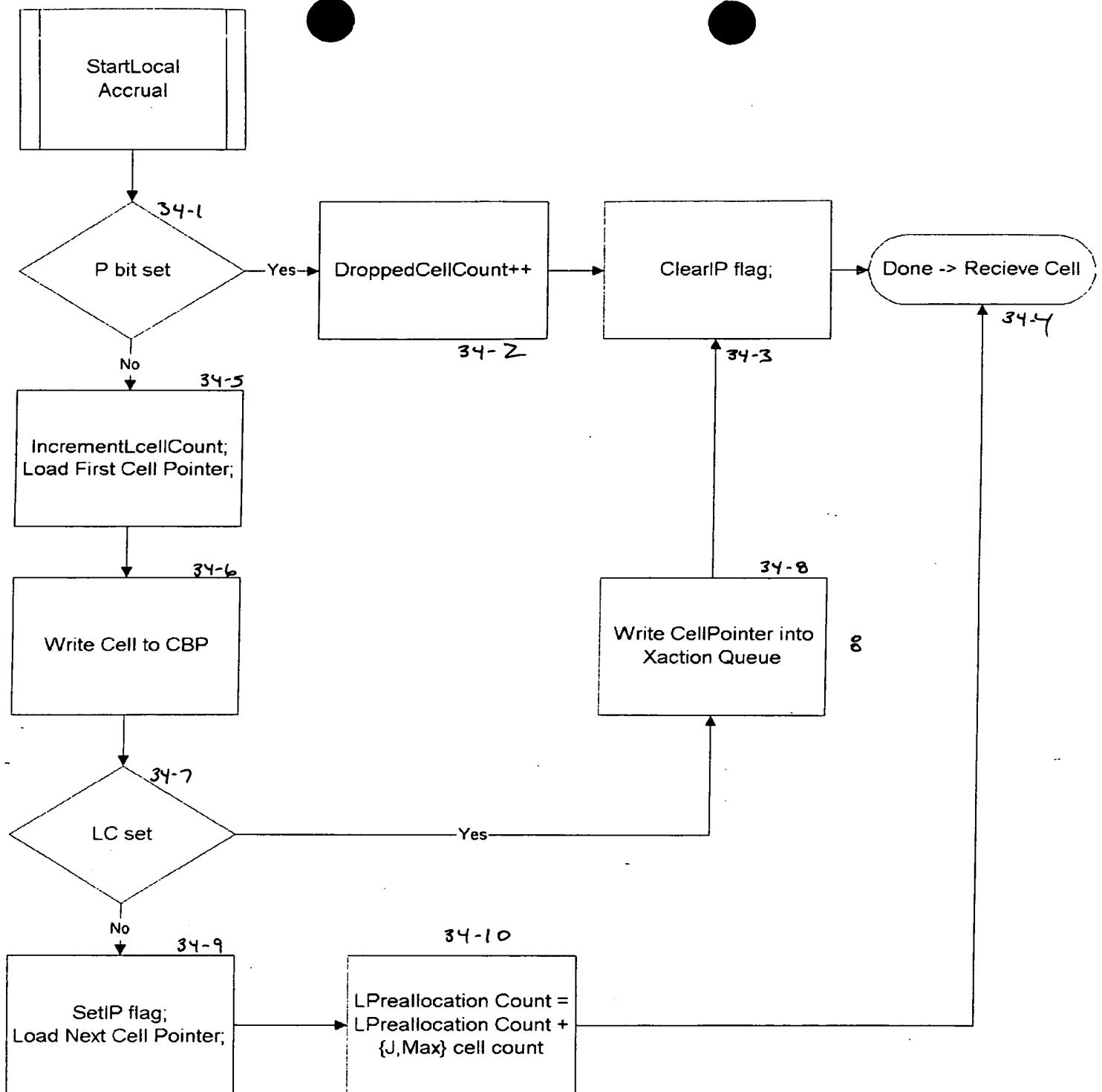


Figure 34

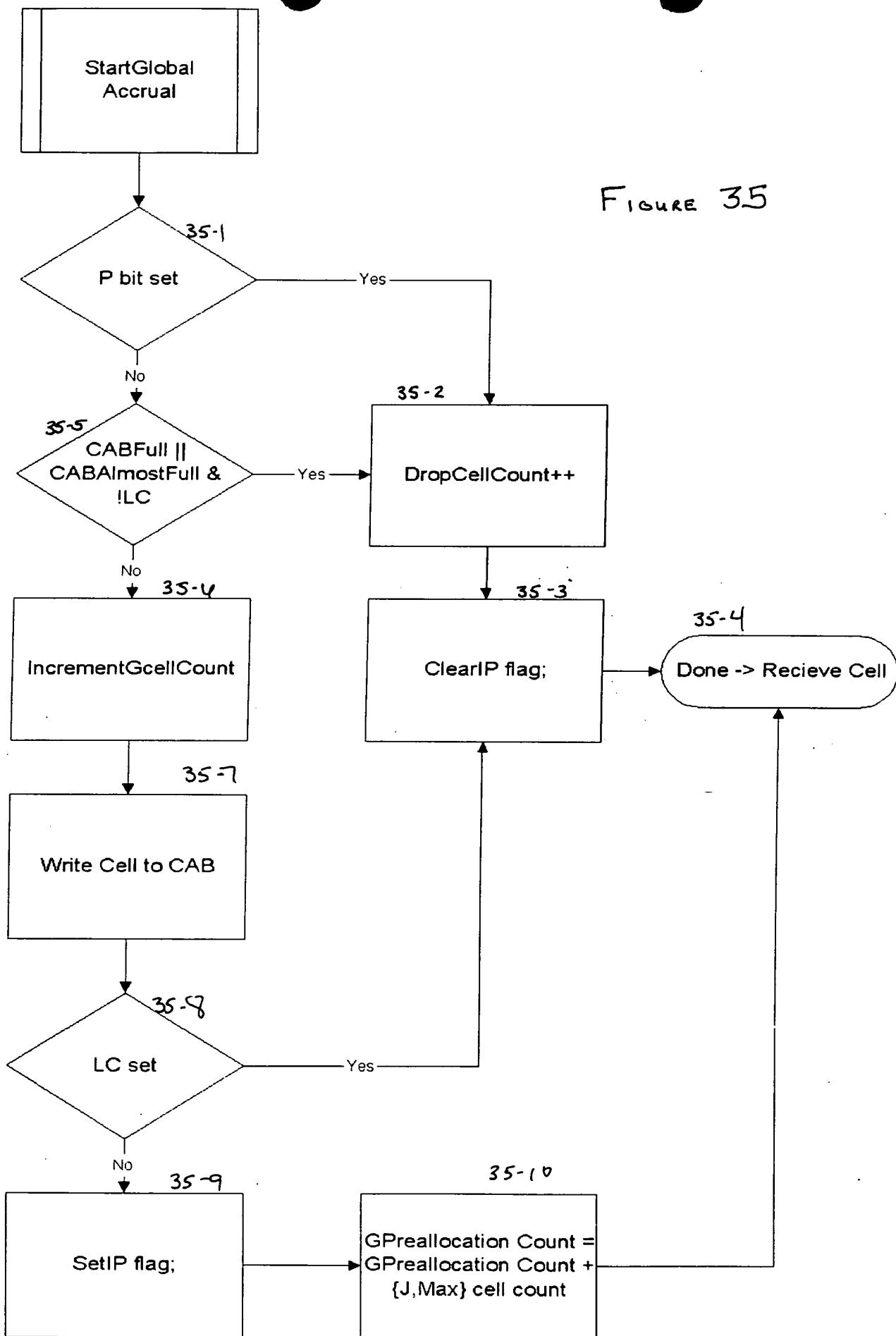


FIGURE 35

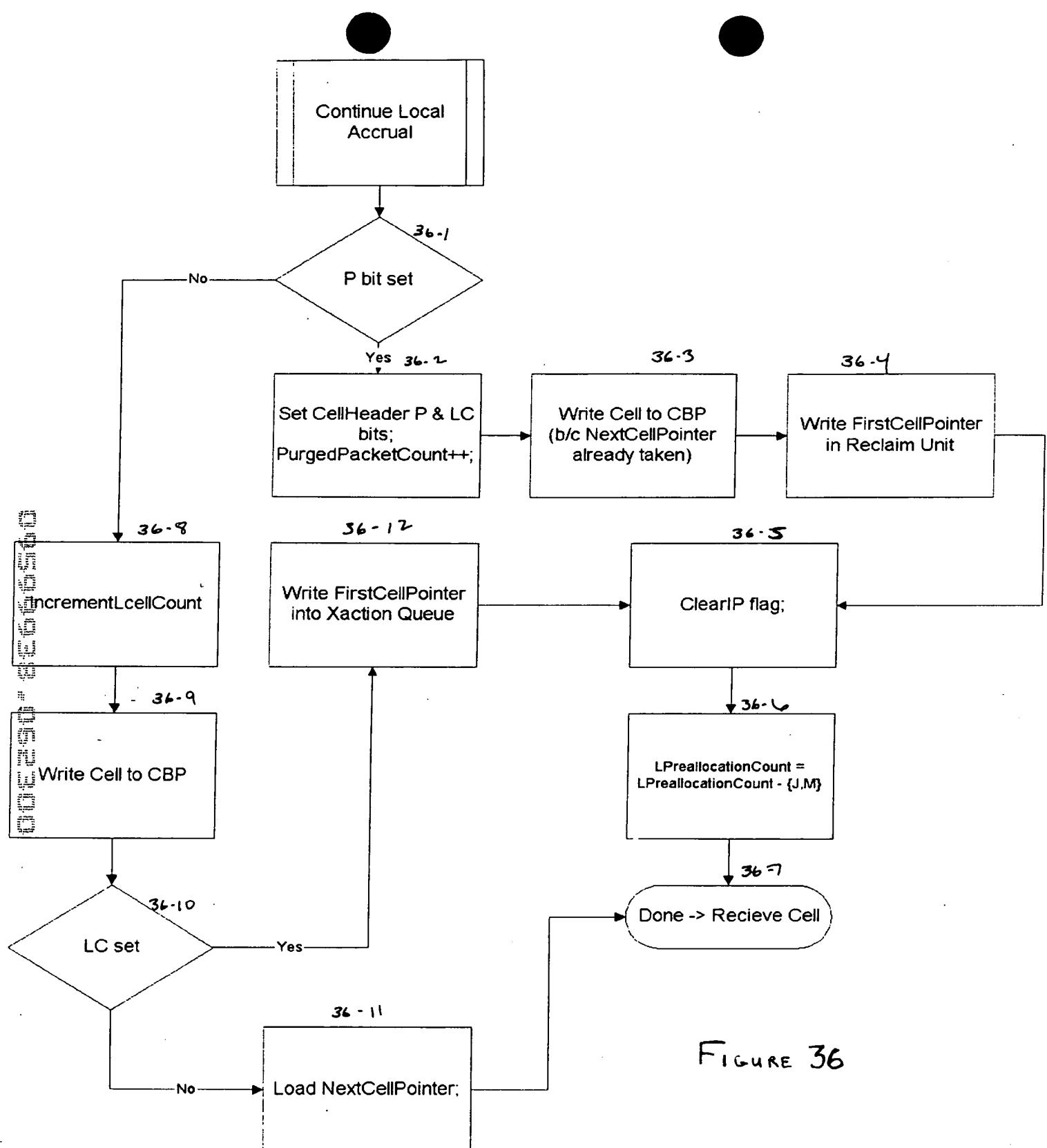


FIGURE 36

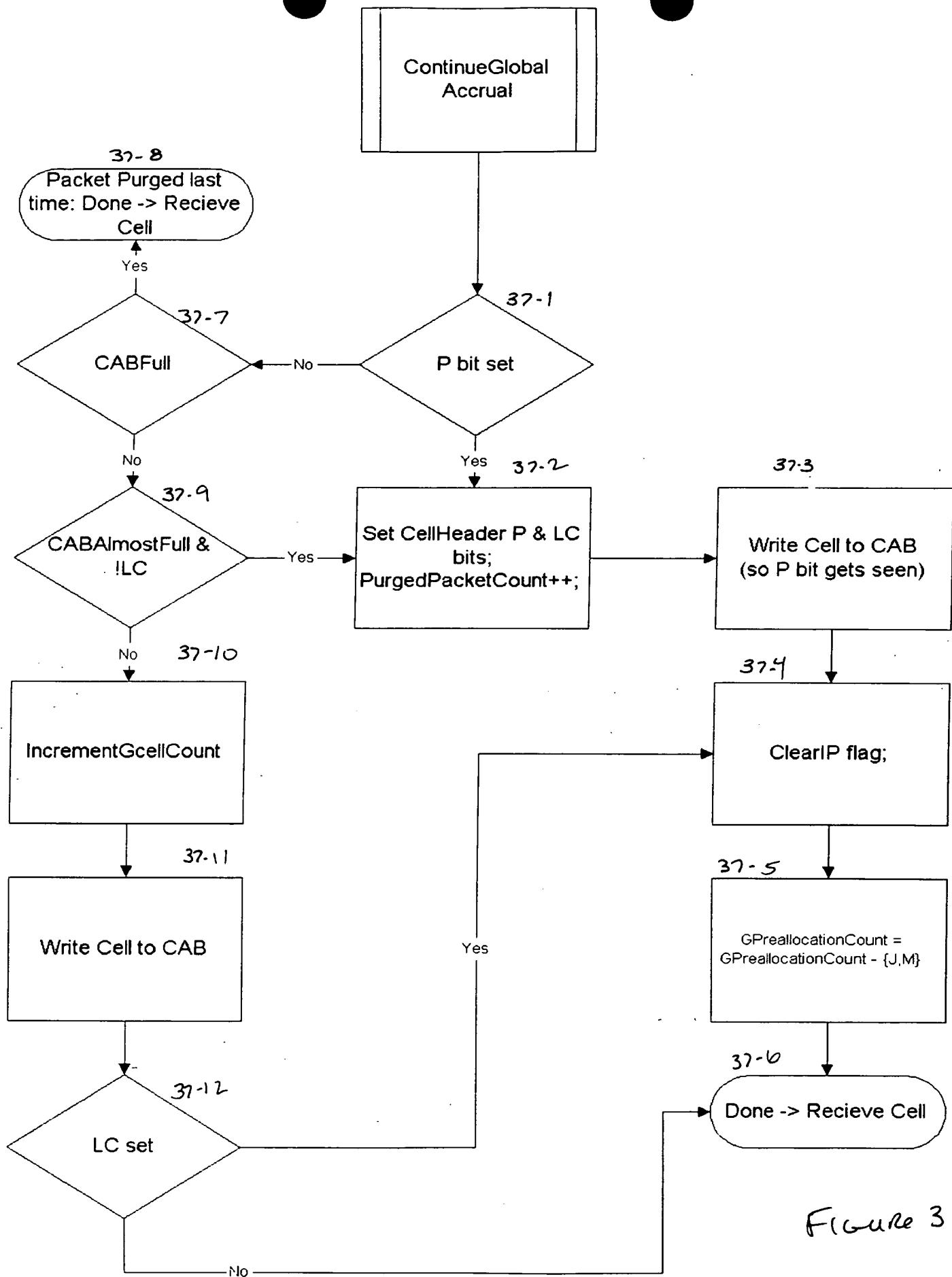


Figure 37

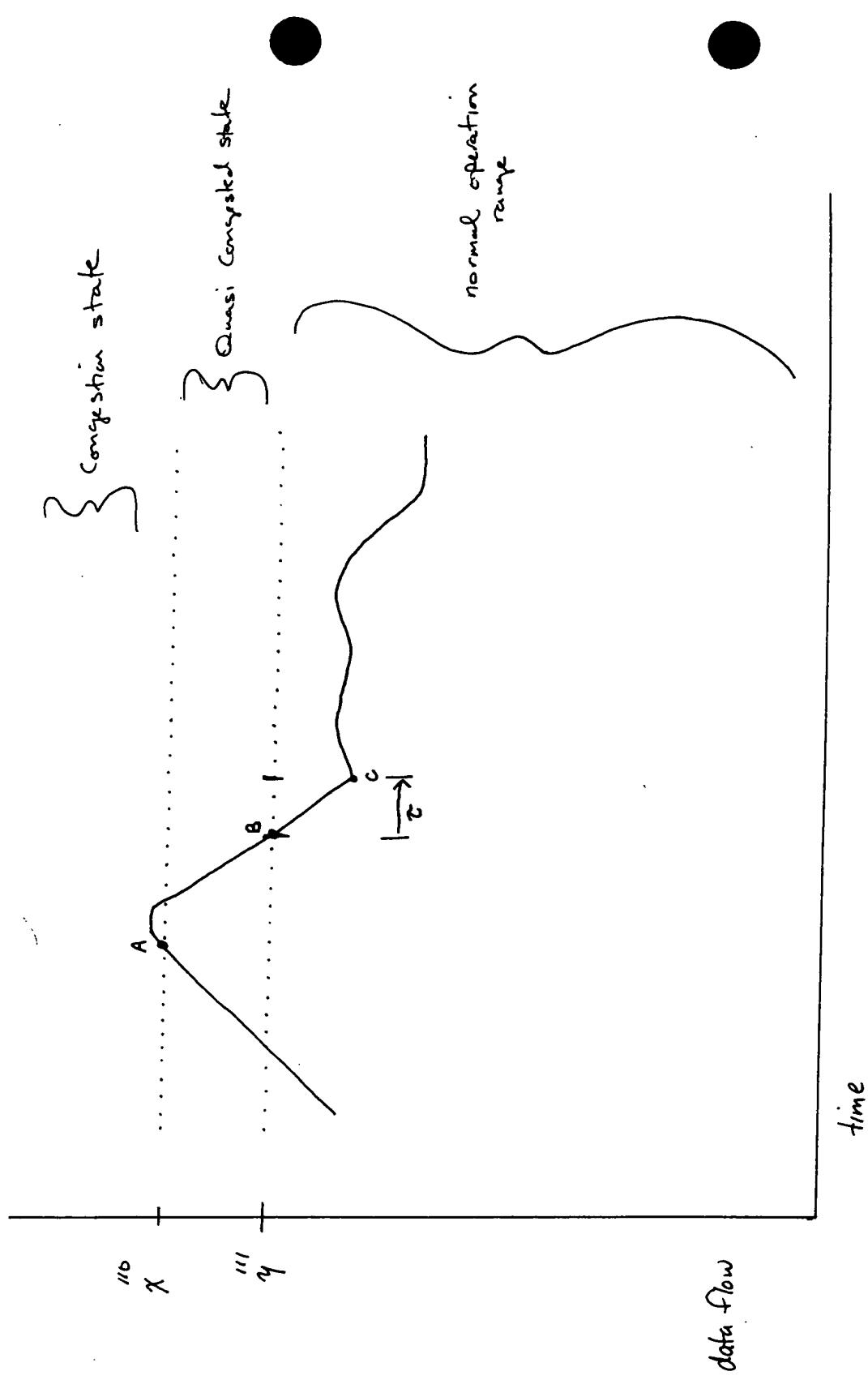


Figure 38

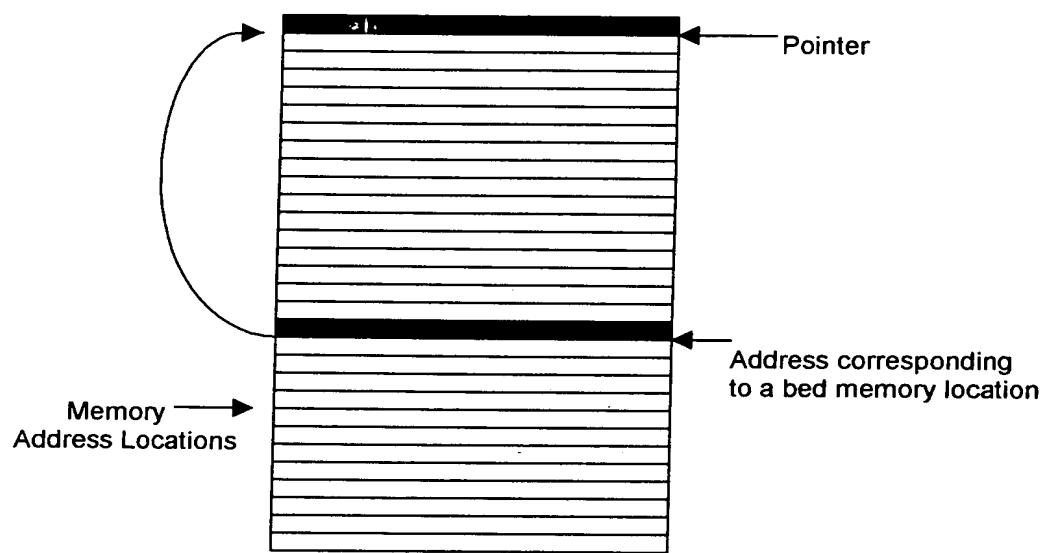


Figure 39